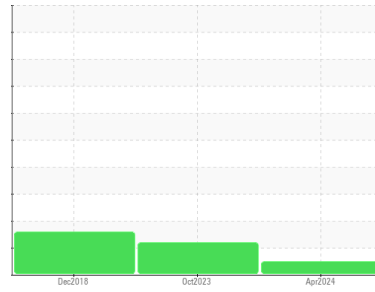




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**[982061]**

Machine Id

**TPX-2**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0843474</b>	WC0803181	WCM2310621
Sample Date	Client Info			<b>16 Apr 2024</b>	18 Oct 2023	20 Dec 2018
Machine Age	hrs	Client Info		<b>2571</b>	2545	1357
Oil Age	hrs	Client Info		<b>2571</b>	200	0
Oil Changed	Client Info			<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	3
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Lead	ppm	ASTM D5185m	>10	<b>4</b>	4	<1
Copper	ppm	ASTM D5185m	>75	<b>27</b>	26	<1
Tin	ppm	ASTM D5185m	>10	<b>1</b>	1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

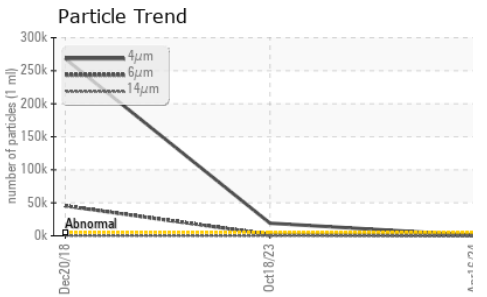
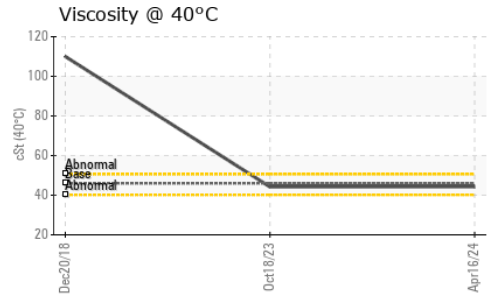
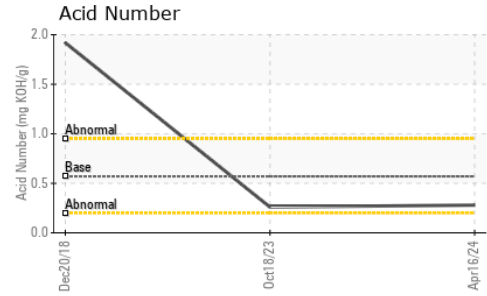
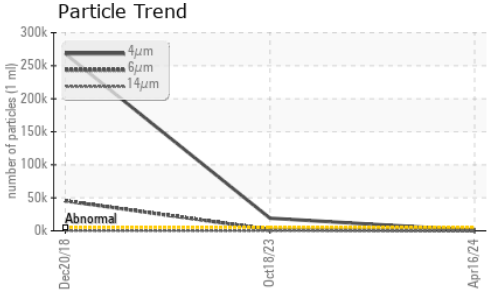
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	81
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	25	<b>23</b>	26	630
Calcium	ppm	ASTM D5185m	200	<b>47</b>	39	1184
Phosphorus	ppm	ASTM D5185m	300	<b>295</b>	298	929
Zinc	ppm	ASTM D5185m	370	<b>340</b>	367	983
Sulfur	ppm	ASTM D5185m	2500	<b>6133</b>	5407	2989

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	5
Sodium	ppm	ASTM D5185m		<b>3</b>	<1	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>856</b>	▲ 19096	▲ 268032
Particles >6µm		ASTM D7647	>1300	<b>180</b>	● 1956	▲ 45272
Particles >14µm		ASTM D7647	>160	<b>21</b>	29	▲ 182
Particles >21µm		ASTM D7647	>40	<b>8</b>	11	▲ 66
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	8
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/12</b>	▲ 21/18/12	▲ 25/23/15



# OIL ANALYSIS REPORT

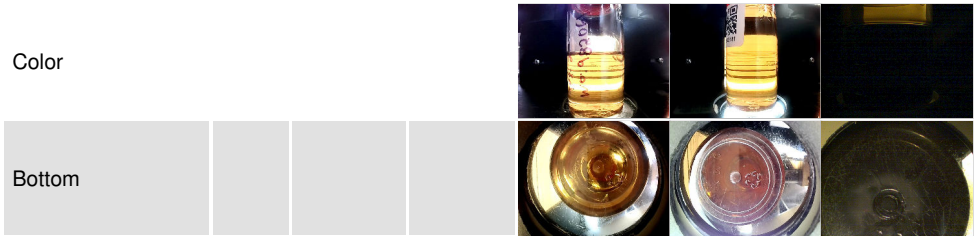


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.28</b>	0.26	1.919

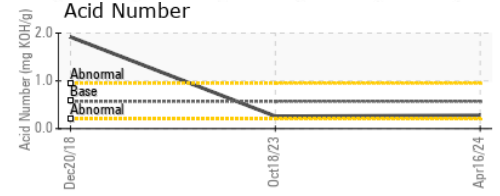
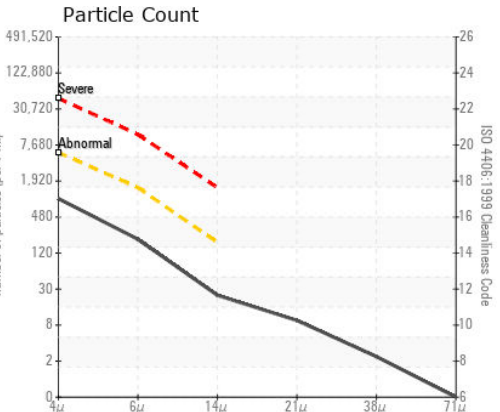
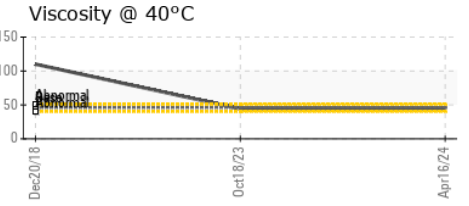
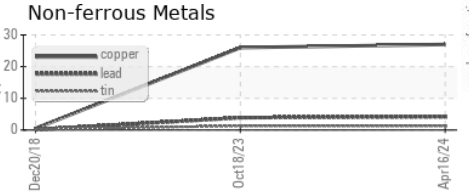
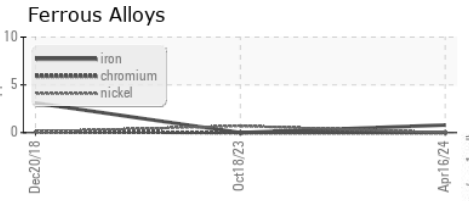
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	<b>44.3</b>	44.2	110.0

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0843474  
**Lab Number** : 06154320  
**Unique Number** : 10989743  
**Test Package** : MOB 2

**AES USA - NORTH CHARLESTON**  
 5400 INTERNATIONAL BLVD, BLDG 88-20  
 NORTH CHARLESTON, SC  
 US 29418  
 Contact: Maxime Banctel  
 maxime.banctel@aes-gse.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)